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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,857	07/03/2001	Koji Takahashi	1232-4733	3532

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NEW YORK, NY 10281-2101

EXAMINER

TRAN, NHAN T

ART UNIT	PAPER NUMBER
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2615

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/898,857

Applicant(s)

TAKAHASHI ET AL.

Examiner

Nhan T. Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 31 and 47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 31 is/are allowed.
- 6) ☒ Claim(s) 47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see amendment, filed 4/26/2005, with respect to claims 31 and 47 are persuasive. However, upon further consideration, a new ground of rejection of claim 47 is made in view of Sato et al (US 5,861,915) and Takashima et al (US 5,596,366).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al (US 5,861,915) in view of Takashima et al (US 5,596,366).

Regarding claim 47, Sato discloses an image sensing optical system (Fig. 1) which attached to an image sensing apparatus (a video camera) having an image sensing element (a CCD in the camera, see col. 1, lines 5-11 and col. 8, lines 62-67), comprising:

a plurality of lenses (22p, 22y shown in Fig. 1, col. 9, lines 4-17 and note that glass plates are considered as lenses);

a memory that stores an adjustment amount (i.e., K1, K2, K3) used to correct a tilt (Fig. 1) of an optical axis of the image sensing optical system with respect to a reference plane to have

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a predetermined relative state (see Fig. 1; col. 5, lines 40-51 and col. 7, lines 38-67, wherein “a reference plane” is inherent in order for the correction of vibration to function as disclosed);

a temperature sensor (41; Fig. 1);

wherein said memory stores an adjustment amount for each of a plurality of temperatures (see col. 7, lines 38-67).

Sato does not explicitly teach that the image sensing optical system is detachably attached to the image sensing apparatus. However, as taught by Takashima, an image sensing optical system (46) which includes a shake correction system utilizing active angle prism is detachably attached to a video camera as a well-known interchangeable optical system for sensing and correcting image vibration caused by hand shaking (see Fig. 1; col. 6, lines 20-34).

Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Sato and Takashima to construct an interchangeable image sensing optical system having a shake correction function so that the optical system would be detachably attached to a plurality of video cameras for image stabilization.

Allowable Subject Matter

3. Claim 31 is allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 31, the prior art of record also fails to teach or fairly suggest the *combination of all limitations* required in claim 31 that includes “...wherein the image sensing system has a first memory that stores an adjustment amount used to correct a tilt of an optical axis of the image sensing optical system with respect to a reference plane, and a

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second memory that stores an adjustment amount used to correct a tilt of the image sensing element with respect to a reference line, and upon the adjustment, the adjustment amounts are read out from the first and second memories, **the readout adjustment amounts are merged, and adjustment is done using the merged adjustment amount."**


Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Tran whose telephone number is (571) 272-7371. The examiner can normally be reached on Monday - Thursday, 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NT.


DAVID L. OMETZ
PRIMARY EXAMINER